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CLAIMS

WHAT IS CLAIMED IS:

- 1. A method for treating a disease condition in a mammal, comprising:

 administering at least one vaccination of dendritic cells (DCs) to said
 mammal; and
 - administering a cyclooxygenase (COX)-2 inhibiting compound to said mammal to enhance the effect of said at least one vaccination of DCs.
- 2. The method of claim 1, wherein each of said at least one vaccination of DC comprises from about 10⁵ to about 10⁷ DC.
- 3. The method of claim 1, wherein administering said COX-2 inhibiting compound further comprises administering said COX-2 inhibiting compound in a dose of from about 0.1 to about 10,000 mg per day.
- 4. The method of claim 1, wherein administering said COX-2 inhibiting compound further comprises administering said COX-2 inhibiting compound in a dose of from about 1.0 to about 1,000 mg per day.
- 5. The method of claim 1, wherein said COX-2 inhibiting compound is NS-398.
- 6. The method of claim 1, wherein the disease condition is selected from the group consisting of lung cancer, bladder cancer, colorectal cancer, and brain caner.
- 7. The method of claim 1, wherein said disease condition is selected from the group consisting of brain cancer, glioma, astrocytomas, ependymal tumors, glioblastoma multiforme, and primitive neuroectodermal tumors.
- 8. A method for selectively inhibiting ProstaglandinE₂ (PGE₂) activity in a mammal, comprising:
 - administering at least one vaccination of dendritic cells (DCs) to said mammal; and

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administering a cyclooxygenase (COX)-2 inhibiting compound to said mammal to selectively inhibit PGE₂ activity.

- 9. The method of claim 8, wherein the COX-2 inhibiting compound inhibits the enzymatic activity of PGE₂.
- 10. The method of claim 8, wherein the disease condition is selected from the group consisting of lung cancer, bladder cancer, colorectal cancer, and brain caner.
- 11. The method of claim 8, wherein said disease condition is selected from the group consisting of brain cancer, glioma, astrocytomas, ependymal tumors, glioblastoma multiforme, and primitive neuroectodermal tumors.